APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301690054-0

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in cold rolling.
Fiz.Metall. 1(1):180 (1955) (CRL/T. 3975x)

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301690054-0

Table of Contents

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CIA/FDD X-2278

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301690054-0

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301690054-0

Table of Contents

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CIA/FDD X-2278

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301690054-0

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Effect of Some Metallurgical Factors on the Specific Losses of Hot-Rolled Transformer Steel, by N. F. Dubrov. UNCL

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Brutcher Tr 3627 35, 501

Sci - Engineering, Minerals/Metals

Jun 1956

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RUSSIAN, per, Fizika Metallov I Metallovedenie, Vol 1, No 1, 1955, pp 185-92

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Scientific - Min/Metals
Feb 56 CTS/dex

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ABSORPTION D'ENERGIE LORS DE LA DEFORMATION DES METAUX A BASSE TEMPERATURE (Pogloshchenie Energii pri Nizkotemperaturnom Deformirovanii Metallov) tr. by Fedorovski. 15 Dec 61 [37]p. (Russian text included) [4 refs]. CEA Trans. no. R 1451 (text in French).
Order From OTS or SLA $3.60 62-24575

Trans. in French of Fizika Metallov i Metallovedenie (USSR) 1955, v. 1, no. 2, p. 206-218.

DESCRIPTORS: *Absorption, *Energy, *Deformation, Metals, Temperature.

(Physics--Solid State, TT, v. 8, no. 3)

62-24575

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II. Chalkovskii, E. F.
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IV. CEA-tr-R1451
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Vol 1, No 2, 1955, pp 231-238.
FTD HT Special 601-69

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NACA TM 1411

Sci - Min/Met
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Navy Tr 1397/NRL 580

Sci - Min/Metals
Dec 56 GTS

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DETERMINATION DE LA TENSION DE VAPEURS DU COBALT ET DU FER A L'AIDE DE RADIOISOTOPES A L'ÉTAT SOLIDE, tr. by Vinogradoff. 4 July 60 [28]p. 19 refs. CEA Trans. no. R 968 (text in French).
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Trans. in French of Fiz[ika] Metal[lov] i Metallo-ved[enie] (USSR) 1955, v. 1, no. 2, p. 286-297.

DESCRIPTORS: *Radioactive isotopes, *Cobalt, *Iron, High temperature research, *Heat of sublimation, Vacuum apparatus, *Vaporization.

(Metallurgy, TT, v. 4, no. 6)

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RUSSIAN, per, Fizika Metallov i Metallovedenie, Vol I, No 2, 1955, pp 303-306.

Brutcher Tr 3745 95-498

Sci - Minerals/Metals, Chemistry

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The Effect of Small Additions of Silver or Zinc on the Solubility of Copper in Aluminium, by L. M. Magnat, N. I. Noskova.

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Sci Mus Lib Tr 57/0126

Sci - Min/met
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Fulmer Res Inst Ltd Tr 75
ET/3.164

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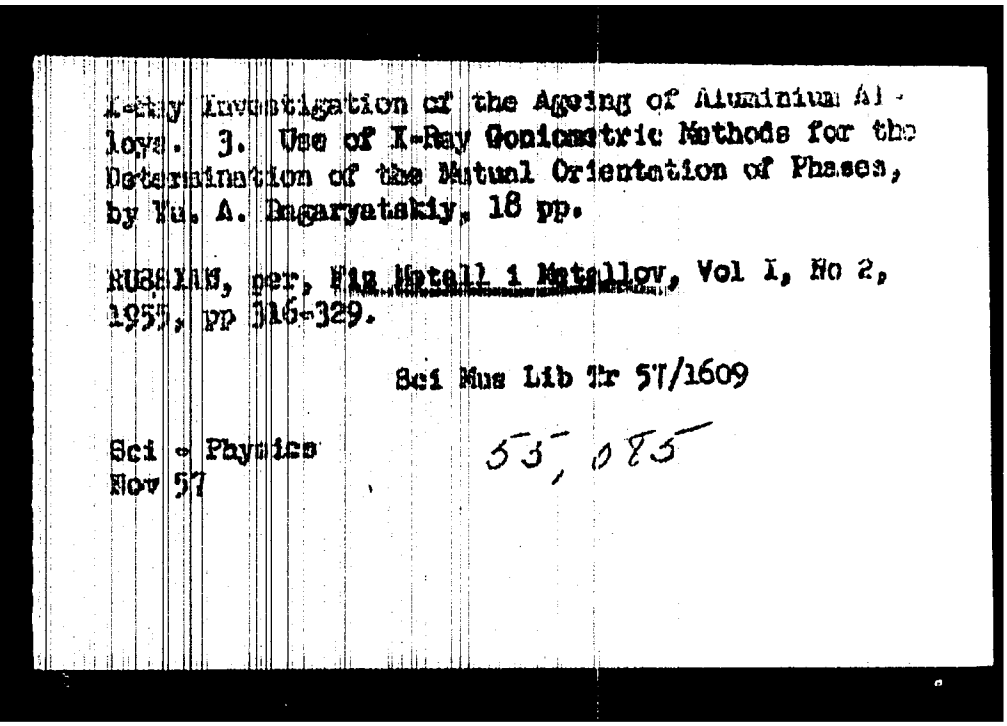

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Sci - Physics
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The [illegible] Ageing of an Al-Cu Alloy, by
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Sci - Chemistry
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Sci Mus Lib Tr 57/0115

Sci - Physics
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RUSSIAN, per, Fizika Metallov i Metallovedenie, Vol I, No 2, 1955, pp 366-367.

Brutcher Tr 3743

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Sci - Minerals/Metals, Chemistry

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301690054-0

Table of Contents

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CIA/FDD X-2278

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301690054-0

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Sci - Min/Met

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RUSSIAN, per, Fiz Metal i Metall, Vol I, No 3, 1955, pp 529-537.

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301690054-0

Table of Contents

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CIA/FDD X-2278

X

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301690054-0

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Full tr

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Navy Tr 1443/NRL 596

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ASTI J-5119
MSTC HT-23-189-68

Sci/Mat
Sep 68

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301690054-0

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Effect of "Rest" on the Strength of Case Hardened Steel and Its Tendency to Delayed Rupture, by S. S. Shurakov, 23 pp.

RUSSIAN, por, Fiz Met i Metall, Vol II, No 1, 1956, pp 66-67.

Sci Mun Lib Tr 57/3162

Sci - Physics
Mar 58

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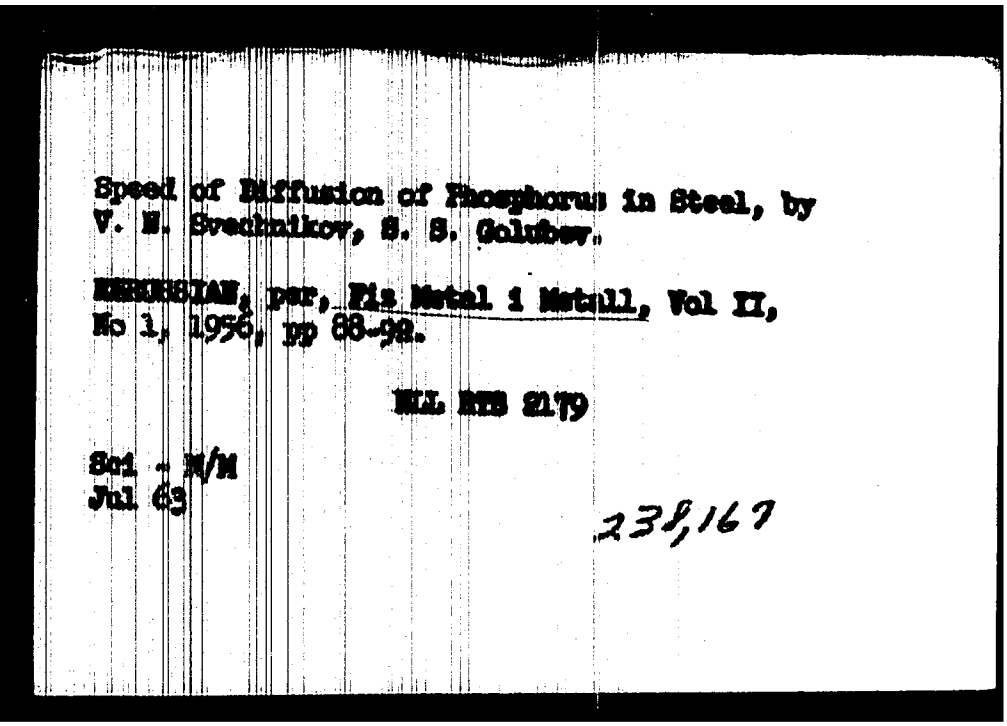

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RUSSIAN, per, Fiz Metal i Metall, Vol II, No 1, 1956, pp 88-92.

ML RUS 2179

Sci - M/M
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RUSSIAN, bimo per, Fiz Metal i Metall, Vol II, No 1, 1956, pp 93-99.

SLA Tr R-1804

Sci - Min/Met

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RUSSIAN, bimo per, Fiz Metal i Metall, Vol II, No 1, 1956, pp 100-104.

SLA Tr R-1803

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Sci - Min/Met

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RUSSIAN, per, Fiz Met i Metall, Vol II, No 1, 1956, pp 105-109.

BLA R-1805

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Effect of Rate and Degree of Plastic Extension on the Relaxation and Subsequent Deformability of Metals
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RUSSIAN, per, Fiz Met i Metall, Vol II, No 1, 1956, pp 142-145.

DSIR/31316/CT

Sci - Physics
Mar 58

Sc.mun.U 57/3115
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RUSSIAN, per, Fiz Metal i Metallov, Vol II, No 1, 1956, pp 146-148.

DSIR/31315/CT

Sci - Physics; Min/met
Feb 58

58,842

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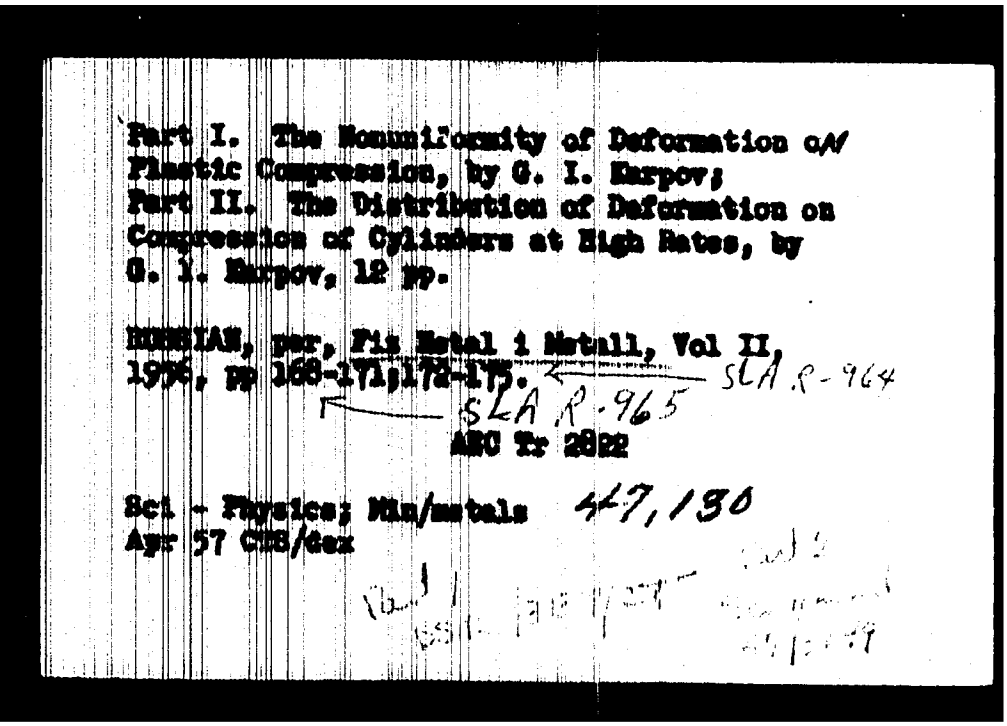

Part I. The Nonuniformity of Deformation on Plastic Compression, by G. I. Kurpov;
Part II. The Distribution of Deformation on Compression of Cylinders at High Rates, by G. I. Kurpov, 12 pp.

RUSSIAN, per, Fiz Metal i Metall, Vol II, 1956, pp 168-171,172-175. SLA R-964
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Sci - Physics; Min/metals 47,130
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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301690054-0

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RUSSIAN, per, Fiz Metal i Metallovedeniye, Vol II, No 1, 1956, pp 176-180.

SLA 60-16955

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Vol 4, No 10

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301690054-0

Table of Contents

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CIA/FDD X-2278

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301690054-0

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RUSSIAN, per, Fiz Met i Metall, Vol II, No 2, 1956, pp 193-205.

SLA R-1136

May 58

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On the Theory of Ferromagnetism in a Non-Ideal Lattice, by V. L. Bonch-Bruevich. UNCLASSIFIED

RUSSIAN, per, Fiz Metallov i Metallovedeniye, Vol XI, No 2, pp 215-221, 1958.

Navy Tr 16'75/NRL-659

Sci - Phys
Apr 58

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Effect of Superheating of Molten Metals upon Their Crystallization, by D. S. Kamenetskaya, et al

RUSSIAN, per: Fiz Metallov i Metallovedeniye, Vol II, No 2, 1956, pp 254-258.

Brutcher No 3833
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Sci - Min/Metals
Dec 56 CTS

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301690054-0

Stabilization of Austenite at Temperatures above the Martensitic Transformation Range, by K. A. Malyshev, N. A. Borodina, V. A. Mirmel Shtein, 16 pp.

RUSSIAN, per, Fiz Met i Metall, Vol II, No 2, 1956, pp 277-284.

SLA R-1776

Sci
Aug 58

70,879

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301690054-0

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301690054-0

Krishtal, M. A.
CALCULATING THE ACTIVATION ENERGY IN DIFFUSION PROCESSES (K Voprosu ob Opredelenii Energii Aktivatsii Diffuzionnykh Protessov). Apr 61 [13]p. 7 refs. RTS 1610.
Order from OTS or SLA $1.60 61-19669

Trans. of Fizika Metallov i Metallovedeniye (USSR) 1956 [v. 2] no. 2, p. 303-303.

DESCRIPTORS: *Diffusion, *Cast iron, *Carbon, Temperature, Velocity, Energy

The equation defining the relation between temperature and the velocity of processes connected with reactive diffusion is examined. The results obtained justify the conclusion that the values of the activation energy of a complex process calculated by a simple exponential relation cannot always be used as a criterion of the rate-determining step. A method is indicated for calculating

(Metallurgy--Ferrous Metals, TT, v. 6, no. 3) (over)

61-19669

I. Krishtal, M. A.
II. RTS-1610
III. Department of Scientific and Industrial Research (Gt. Brit.)

173291

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RUSSIAN, per, Fiz Metallov i Metallovedeniye, Vol II, No 2, 1956, pp 309-319.

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Tr No 3502
$7.80

45, 126

Sci - Min/Metg Metals
Mar 1957 CTB/dex

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Relief Effects on the Cleavage Surfaces of Zn, Bi, and Sb Caused by the Formation of Twinned Layers, by V. I. Startsev, V. M. Kosevich, 9 pp.

RUSSIAN, per, Fiz Metal i Metall, Vol II, No 2, 1956, pp 320-7.

CIA/FDD X-2619

Sci - Min/Metals; Physics
Nov 57

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301690054-0

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Vickers and Rockwell Hardness as a Function of Plasticity Parameters of a Metal and Conditions of Experiment, by G. P. Zaitsev.

RUSSIAN, per, Fiz Metal i Metalloved Akad Nauk SSSR, Ural Filial, Vol II, 1956, pp 339-350.

ATS RJ-1752

Sci / mech / met
Jul 59

90, 557

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301690054-0

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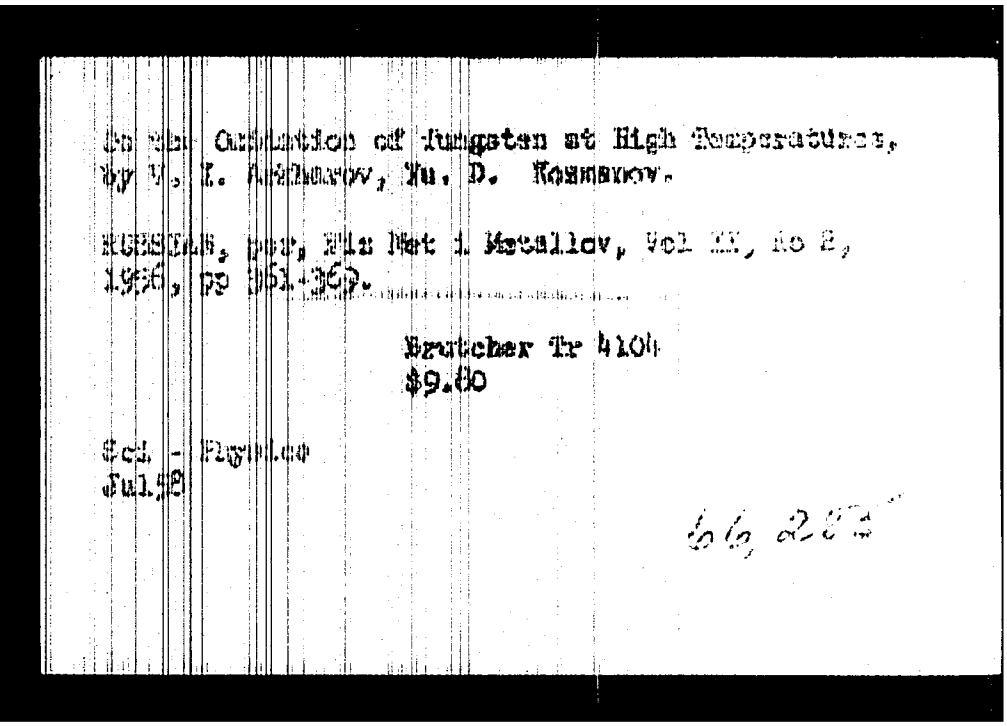

On the Oxidation of Tungsten at High Temperatures,
by V. I. Arkharov, Yu. D. Kuznetsov.

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1956, pp 251-269.

Brutcher Tr 4104
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Sci - Physics
Full

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Vol'kenshtein, N.V. and Fedorov, G.V.
SUR LA MESURE DE L'EFFET HALL-KIKOÏNE (On the Measurement of the Hall-Kikoine Effect). 4p. 3refs. CNRS-X 407.
Order from: OTS, ETC or CNRS 50.80 TT-62-28079

Trans. in French of Fizika Metallov i Metallovedenie (USSR) 1956, v.2, no.2, p.377-388.

DESCRIPTORS: *Ferromagnetism, Ferromagnetic materials, Measurement, *Hall effect.

(Physics--Solid State, TT, v. 11, no. 6)

DR

TT-62-28079

I. Vol'kenshtein, N.V.
II. Fedorov, G.V.
III. CNRS-X 407
IV. Centre National de la Recherche Scientifique, Paris

Office of Technical Services
European Translations Centre

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Table of Contents

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CIA/FDD X-2278

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301690054-0

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On the Temperature and Field-Dependence of the Magnetic Anisotropy Constants of Cubic Crystals, by S. V. Tiablikov, A. A. Guser, 12 pp.

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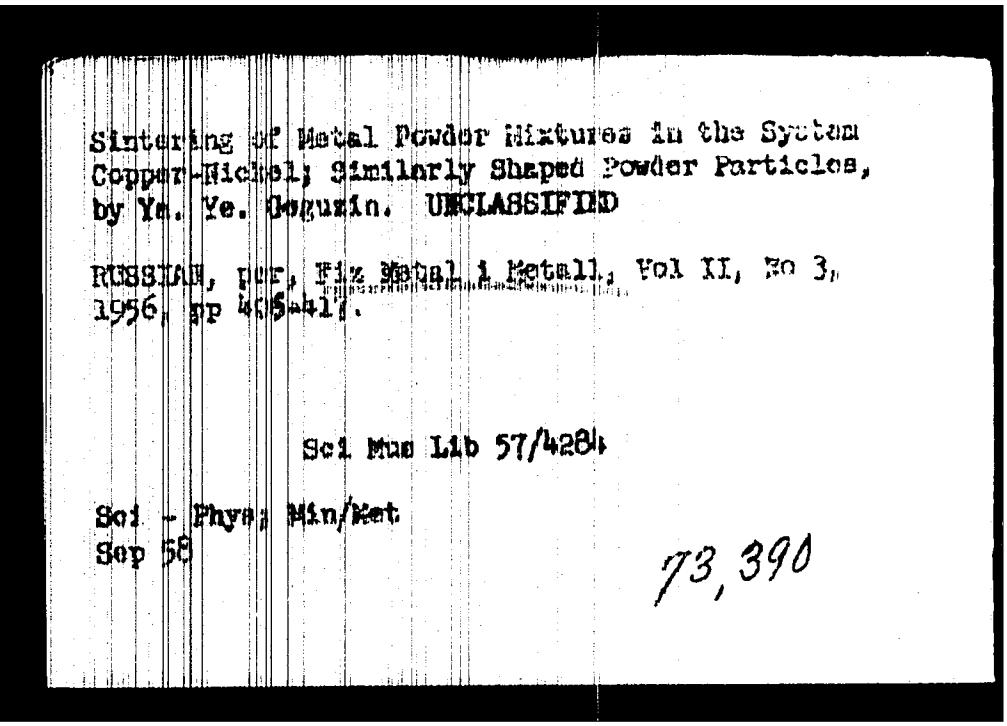

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High-Temperature Oxidation of Titanium in Steam,
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Table of Contents of:
Fizika Metallov i Metallovedenie

Volume III, No3, 1956

FDD X 2624

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301690054-0

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301690054-0

Table of Contents

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CIA/FDD X-2278

APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301690054-0

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Remark on the Stationary States of an Electron in a Non-periodic Field by A. I. Rezanov.

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* Morris D. Friedman for Lincoln Lab
(Will appear in SLA later)

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Sci - Electricity, Physics 52, 272

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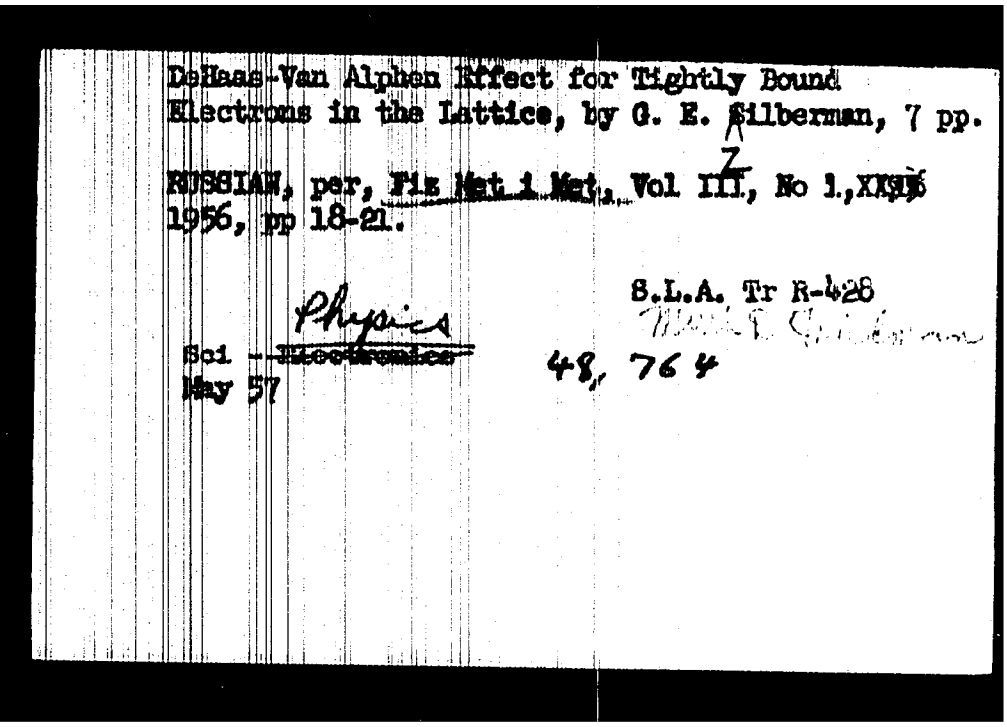

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May 57

48, 764

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246, 151

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Influence of the Ordering Process on the Temperature Dependence of the Magnetic Properties of an Fe-Ni-Mo Alloy, by M. V. Delitsin, 13 pp.

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SLA R-1553

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Aug 58

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Kinetics of Growth of the Diffusional Layer in the Boronizing of Steel, by V. D. Taran, L. P. Shugarova.

RUSSIAN, no per, Fiz Metal i Metall, Vol III, No 1, 1956, pp 66-69.

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Sep 57

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Internal Friction in Deformed Alloys of the α - Solid Solution of Aluminum With Magnesium, by A. V Grin, V. A. Pavlov, 4 pp.

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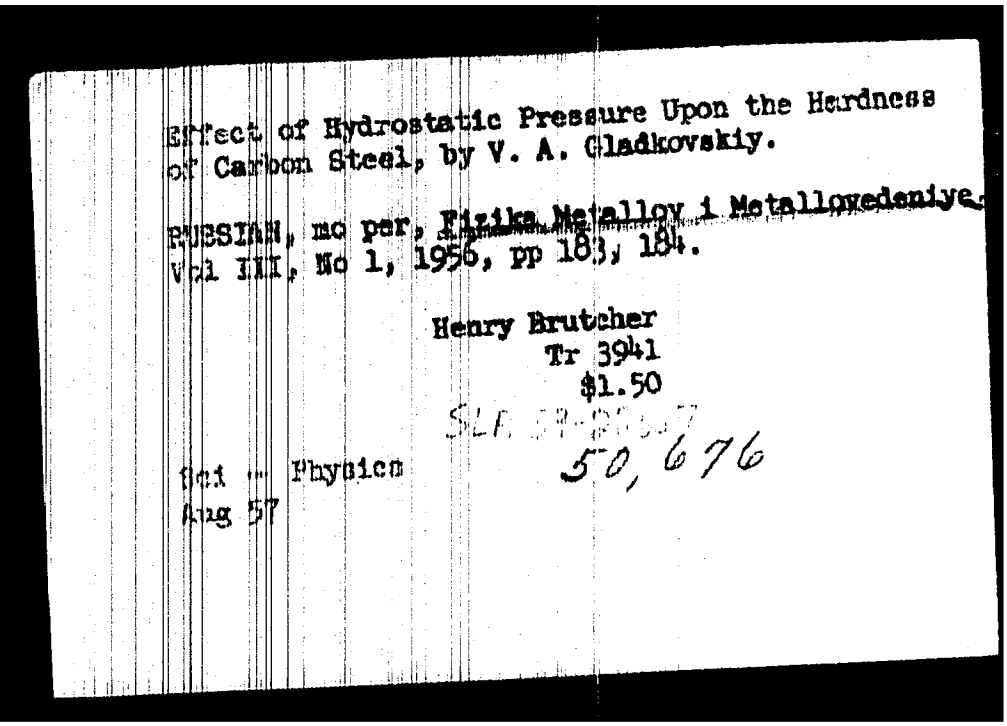

Effect of Hydrostatic Pressure Upon the Hardness of Carbon Steel, by V. A. Gladkovskiy.

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SLA 57-2507

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Nat -- Physics
Aug 57

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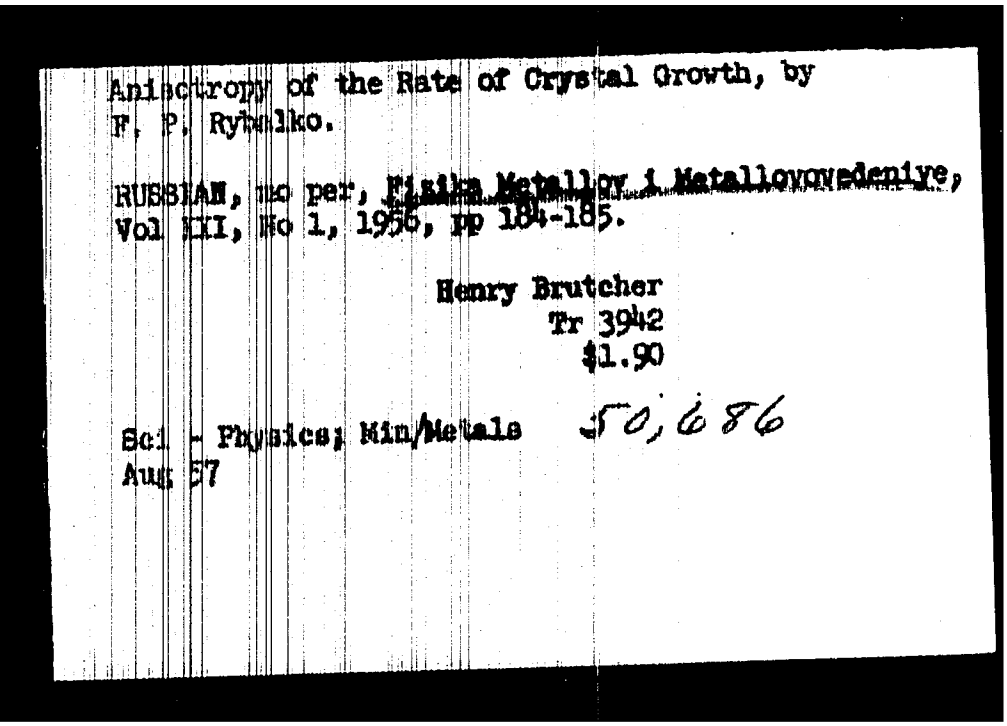

Anisotropy of the Rate of Crystal Growth, by
F. P. Rybalko.

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Henry Brutcher
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Sci - Physics; Min/Metals 50,686
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Sci - Min/Met

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Variation of the Magnetic State of Soft Magnetic Materials Under Action of Alternating Magnetic Fields, by I. E. Startseva, I. S. Shur, 3 pp.

RUSSIAN, per, Fiz Met i Metal, Vol III, No 1, 1956, pp 190, 191.

SLA Tr R-850

Sci - Electricity, Physics 52,271

Sep 57

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On the Energy of Vacancy Formation in Metals and Alloys, by S. D. Gertsriken, 4 pp.

RUSSIAN, per, Fizika Metallov i Metallov, Vol III, 1956, pp 238.

CIA/FDD X-2482

Sci - Min/Metals
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Silin, V. P.
ON THE THEORY OF THE COLLECTIVE DESCRIPTION OF THE INTERACTION OF ELECTRONS IN A SOLID. [1962] 14p. 20 refs.
Free copies available from Boeing Scientific Research Labs. Library as Boeing Trans. R6. When supply is exhausted, order from OTS or SLA $1.60, 63-10650

Trans. of Fizika Metallov i Metallovedenie (USSR) 1956, v. 3, no. 2, p. 193-199.

DESCRIPTORS: *Electrons, *Solids, Metals, *Quantum mechanics, *Quantum statistics, Elementary particles.

Some results are set forth associated with obtaining kinetic equations for electrons that take into account the presence of spin. In this connection, the correlation of particles due to their indistinguishability is also taken into account. The equations found are utilized to
(Physics--Solid State, TT, v. 9, no. 6) (over)

63-10650

1. Silin, V. P.
II. Boeing Trans-R6
III. Boeing Scientific Research Labs. Seattle, Wash.

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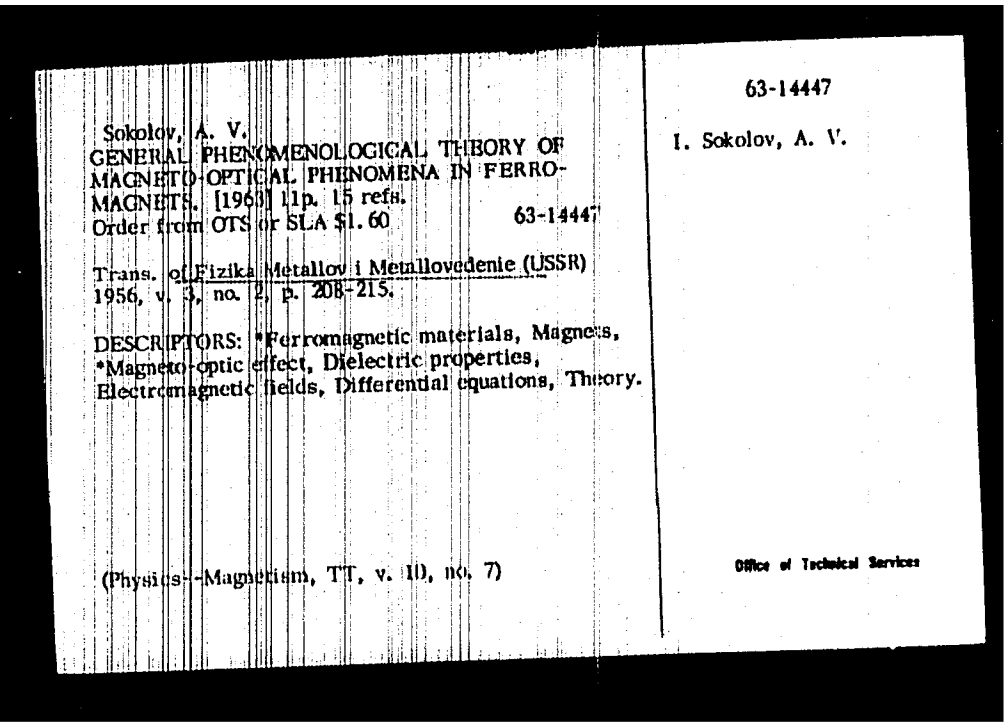

Sokolov, A. V.
GENERAL PHENOMENOLOGICAL THEORY OF MAGNETO-OPTICAL PHENOMENA IN FERRO-MAGNETS. [1963] 11p. 15 refs.
Order from OTS or SLA $1.60 63-14447

Trans. of Fizika Metallov i Metallovedenie (USSR)
1956, v. 3, no. 2, p. 208-215.

DESCRIPTORS: *Ferromagnetic materials, Magnets, *Magneto-optic effect, Dielectric properties, Electromagnetic fields, Differential equations, Theory.

(Physics--Magnetism, TT, v. 10, no. 7)

63-14447

I. Sokolov, A. V.

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Santalov, F. A.
THE INFLUENCE OF ADDITIONS OF LOW-MELTING METALS ON THE RATE OF EXPULSION OF A VOLATILE COMPONENT FROM SOLID SOLUTIONS AND ON THE STRUCTURE OF THE SPECIMENS. [1960] 20p. (3 figs. omitted) 8 refs.
Order from LC or SLA mi$2.40, ph$3.30 61-10665

Trans. of Fizika Metallov i Metalloved[eniye] (USSR) 1956, v. 3, no. 2, p. 247-253.

If in the presence of a third element in an alloy the expulsion rate of the volatile component is increased, then the compression of the sample is reduced and the total pore volume is increased. If the expulsion rate is reduced in the presence of the third element, the compression of the sample increases and the total porosity decreases. The parallelism between the influence of the third element on the expulsion rate and the structure of the specimen attest that the expulsion of the volatile component from solid solutions is a (Chemistry--Physical, TT, v. 5, no. 9) (over)

61-10665

1. Zinc--Diffusion
2. Cadmium--Diffusion
3. Alloys--Microstructure.
I. Santalov, F. A.

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Structure of Magnetite in Diffusional Reduction Layers on [Grains of] Hematite, by V. I. Arkharov, V. N. Bogoslovskiy.

RUSSIAN, per, Fizika Metallov i Metallovedeniye, Vol III, No 2, 1956, pp 254-268.

Henry Brutcher Tr No 3913
$13.40 47,042

Sci - Min/Metals
Apr 1957 CMS/dax

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On the Texture of in an Iron Scale, Part VII. T
Nature of Texture in the Intermediate Temperatur
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RUSSIAN, per, Fiz Metallov i Metalloveden'e, Vol
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Navy Tr 1624/NRL ~~Mxxk~~ 644

Sci - Phys
Feb 58

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Study of Bond Forces in Solid Solutions of Iron and Molybdenum From the Fine Structure of X-Ray Absorption Spectra, by V. A. Trapeznikov, xx S. A. Nemnonov.

RUSSIAN, per, Fizika Metallov i Metallovedenie, Vol III, N 2, 1956, pp 314-320.

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Sci - Physics
Mar 58

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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301690054-0

11 216 GE-1

KHOTKEVICH V. I.

Maximum elasticity and plasticity of some metals at the temperature of liquid helium

Grenzelastizität und Plastizität einiger Metalle bei der Temperatur flüssigen Heliums

*Fiz. Met. i Metallov., 3, No. 2, 321-325 (1956)

German

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Purification of Tellurium and Antimony, by
P. I. Vasenin, 4 pp.
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No 2, 1956, pp 350-362.

SIA R-663

Sci - Minerals/Metals
Oct 57

54, 255
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To the Multielectron Theory of Semiconductors, I,
by S. V. Vonsovskiy, Yu. P. Irikhin, A. M. Kushnirenko,
E. A. Turov, 19 pp.

RUSSIAN, per, Fiz Met i Metall, Vol III, No 3, 1956,
pp 385-394.

SLA R-1973

Sci
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APPROVED FOR RELEASE: Wednesday, August 14, 2002 CIA-RDP91-00772R000301690054-0

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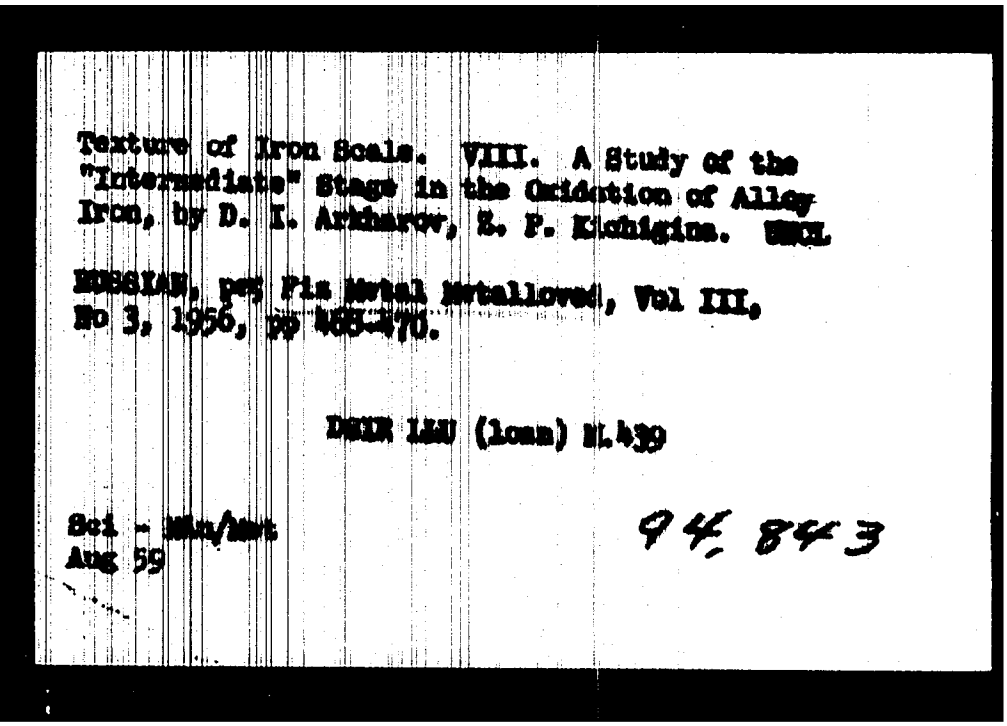

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